



Dart Aerospace Ltd.
1270 Aberdeen St
Hawkesbury, ON
K6A 1K7
Canada

Tel (613) 632-5200
Fax 613 632-5246

D5530-1**Job Sheet 197237****Part No:** D5530-1**Job Qty:** 12 pcs**Part Name:** 37° Flared Tube Fitting**Part Weight:** 0 lbs**Status:** New**Priority:** Medium**Job Created:** 7/3/19**Job Tracking No:****Due Date:** 7/22/19**Created By:** Marie Lajeunesse**Type:** Stock**Description:****Note:** DWG REV A IPP REV:A 17.04.25 NEW ISSUE DD VERF:JFS**Ship Via:****Bill of Materials****Job Routing**

Op No	Operation	Qty	Start Date	Due Date	Standard Setup Hrs	Run Hrs	Workcenter/Supplier	Sign-off
							Workcenter / Supplier Lead Time	
100	Purchasing	12 pcs	7/22/19	7/22/19	0.00	0.00	Purchasing - 1	JUL 08 2019
							Purchasing - 2	
							Purchasing - 3	
110	Packaging 2-1 - Receive - B4B	12 pcs	7/22/19	7/22/19	0.00	0.00	Packaging 2 - 1 - B4B	JUL 08 2019
							Packaging 2 - 2 - B4B	
							Packaging 2 - 3 - B4B	
							Packaging 2 - 5 - B4B	
							Packaging 2 - 4 - B4B	
							Packaging 2 - 6 - B4B	
							Packaging 2 - 7 - B4B	
							Packaging 2 - 8 - B4B	
							Packaging 2 - 9 - B4B	
							Packaging 2 - 10 - B4B	
							Packaging 2 - 11 - B4B	
							Packaging 2 - 12 - B4B	
							Packaging 2 - 13 - B4B	
							Packaging 2 - 14 - B4B	
							Packaging 2 - 15 - B4B	
							Packaging 2 - 16 - B4B	
							Packaging 2 - 17 - B4B	
							Packaging 2 - 18 - B4B	
							Packaging 2 - 19 - B4B	
							Packaging 2 - 20 - B4B	
							Packaging 2 - 21 - B4B	
							Packaging 2 - 22 - B4B	
							Packaging 2 - 23 - B4B	
							Packaging 2 - 24 - B4B	
							Packaging 2 - 25 - B4B	
							Packaging 2 - 26 - B4B	
							Packaging 2 - 27 - B4B	
							Packaging 2 - 28 - B4B	

**Container No:** S196331**Part:** D5530-1**Job No:** 197237**Serial No/Batch:** S196331**Revision:****Inspector:****Exp Date:****Instructions:** Various STC's

Dart Aerospace Ltd.
1270 Aberdeen Street
Hawkesbury, ON K6A 1K7
CANADA
TEL.: 1 613 632-5200
Email: sales@dartaero.com
www.dartaerospace.com

Date: 07/08/19

Plex 7/3/19 10:41 AM Dart.lajeunesse.marie

					Packaging 2 - 29 - B4B	
					Packaging 2 - 30 - B4B	
					Packaging 2 - 31 - B4B	
					Packaging 2 - 32 - B4B	
					Packaging 2 - 33 - B4B	
					Packaging 2 - 34 - B4B	
					Packaging 2 - 35 - B4B	
					Packaging 2 - 36 - B4B	
120 QC 6	12 pcs	7/22/19	0.00 0.00	QC 6 - 9		DAS 61 9-89
				QC 6 - 68		
				QC 6 - 61		
				QC 6 - 40		
123 HAAS 5 Axis - B4B	12 pcs	7/22/19	0.50 3.43	HAAS - 5 - B4B		St 19-08-06
126 QC 2	12 pcs	7/22/19	0.00 0.00	QC 2 - 1		
				QC 2 - 12		
				QC 2 - 14		
				QC 2 - 17		
				QC 2 - 19		
				QC 2 - 2		
				QC 2 - 20		St 19-08-06
				QC 2 - 22		
				QC 2 - 23		
				QC 2 - 25		
				QC 2 - 32		
				QC 2 - 33		
				QC 2 - 35		
				QC 2 - 39		
				QC 2 - 4		
				QC 2 - 40		
				QC 2 - 44		
				QC 2 - 45		
				QC 2 - 48		
				QC 2 - 49		
				QC 2 - 50		
				QC 2 - 51		
				QC 2 - 52		
				QC 2 - 57		
				QC 2 - 62		
				QC 2 - 63		
				QC 2 - 8		
				QC 2 - 66		
				QC 2 - 64		
				QC 2 - 65		
				QC 2 - 5		
				QC 2 - 71		
				QC 2 - 73		
				QC 2 - 69		
128 QC 8	12 pcs	7/22/19	0.00 0.00	QC 8 - 12		On 19/08/18
				QC 8 - 14		
				QC 8 - 17		
				QC 8 - 20		
				QC 8 - 25		
				QC 8 - 3		
				QC 8 - 32		
				QC 8 - 33		
				QC 8 - 35		
				QC 8 - 39		
				QC 8 - 4		
				QC 8 - 44		

				QC 8 - 45	
				QC 8 - 49	
				QC 8 - 58	
				QC 8 - 8	
				QC 8 - 9	
				QC 8 - 68	
				QC 8 - 67	
				QC 8 - 1 (A)	
				QC 8 - 47	
				QC 8 - 40	
				QC 8 - 52	
				QC 8 - 23	
				QC 8 - 57	
130	Packaging 3-1 - Stock - B4B	12 pcs	7/22/19	0.00 0.00	Packaging 3 - 1 - B4B
					Packaging 3 - 2 - B4B
					Packaging 3 - 3 - B4B
					Packaging 3 - 4 - B4B
					Packaging 3 - 5 - B4B
					Packaging 3 - 6 - B4B
					Packaging 3 - 7 - B4B
					Packaging 3 - 8 - B4B
					Packaging 3 - 9 - B4B
					Packaging 3 - 10 - B4B
					Packaging 3 - 11 - B4B
					Packaging 3 - 12 - B4B
					Packaging 3 - 13 - B4B
					Packaging 3 - 14 - B4B
					Packaging 3 - 15 - B4B
					Packaging 3 - 16 - B4B
					Packaging 3 - 17 - B4B
					Packaging 3 - 18 - B4B
					Packaging 3 - 19 - B4B
					Packaging 3 - 20 - B4B
					Packaging 3 - 21 - B4B
					Packaging 3 - 22 - B4B
					Packaging 3 - 23 - B4B
					Packaging 3 - 24 - B4B
					Packaging 3 - 25 - B4B
					Packaging 3 - 26 - B4B
					Packaging 3 - 27 - B4B
					Packaging 3 - 28 - B4B
					Packaging 3 - 29 - B4B
					Packaging 3 - 30 - B4B
					Packaging 3 - 31 - B4B
					Packaging 3 - 32 - B4B
					Packaging 3 - 33 - B4B
					Packaging 3 - 34 - B4B
					Packaging 3 - 35 - B4B
					Packaging 3 - 36 - B4B
140	QC 21 - SA	12 pcs	7/22/19	0.00 0.00	QC 21 - SA - 21
					QC 21 - SA - 70
					QC 21 - SA - 53

PC 57167

AUG 19 2019

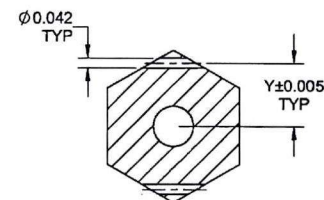
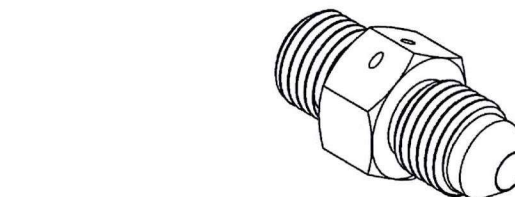
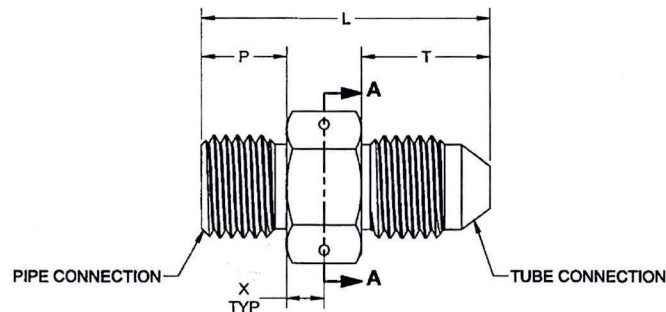
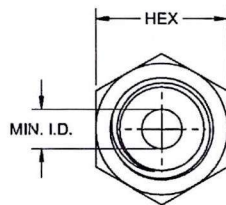
DAS
77
9-89

Part Op **110** - Receive & Inspect for Damage & Mat'l Certs
 Descriptions: **120** - QC6- All purchased or subcontracted products
123 - (HAAS CNC Vertical Machine)
126 - QC2- Inspect parts off machine FAI/FAIB
128 - QC8- Inspect parts - second check
130 - Identify as per dwg & Stock Location: _____
140 - QC21- Final Inspection - Work Order Release

Job BOM				
Part / Item	Component Name	Quantity	Operation	Container
50715K676	Flared Tube Fitting SS D5530-1	12 Ea (1 ea)	100-Purchasing	5196330
Job Allocations				
Operation	Component Part	Required	Inventory	Allocated
100-Purchasing	50715K676	12	0	0
Part Specifications				
Specifications could not be found.				

Plex 7/3/19 10:41 AM Dart.lajeunesse.marie

SPECIFICATION CONTROL DRAWING



SECTION A-A

D5530-X ADAPTER, FLARED TUBE FITTING

DART PN	DESCRIPTION	TUBE O.D.	TUBE CONNECTION	PIPE CONNECTION	HEX	MIN I.D.	L	P	T	X	Y	VENDOR	VENDOR PN	MATERIAL	WEIGHT
D5530-1	37 DEGREE FLARED TUBE FITTING	1/4	37° FLARED, 7/16-20 UNF	7/16-20 UNF	9/16	0.17	1.23	0.36	0.55	0.160	0.269	MCMaster-CARR	50715K676	316 S.S.	0.01 LBS

SHOP COPY
RETURN TO
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UNCONTROLLED COPY
SUBJECT TO AMENDMENT
WITHOUT NOTICE
WORK ORDER

NOTES:

- 1) MATERIAL: SEE TABLE
- 2) FINISH: N/A
- 3) TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED
- 4) UNITS: INCHES UNLESS OTHERWISE NOTED
- 5) BREAK SHARP EDGES: N/A
- 6) IDENTIFICATION: N/A
- 7) WEIGHT: SEE TABLE
- 8) ADD LOCKWIRE HOLES PER SECTION A-A

NO. 197237 MLJ
19-07-03

RELEASED
2017-05-16
EN 17-511

A	NEW ISSUE	WK	17.03.29
REV.	DESCRIPTION	BY	DATE
DESIGN	WK	DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA	
DRAWN	WK		
CHECKED	VS	DRAWING NO.	REV. A
MFG. APPR.	LL	D5530	SHEET 1 OF 1
APPROVED	HS	TITLE	SCALE
DE APPR.	DS	ADAPTER, FLARED TUBE	NTS
DATE	17.03.29	COPYRIGHT © 2017 BY DART AEROSPACE LTD THIS DOCUMENT IS PRIVATE AND CONFIDENTIAL AND IS SUPPLIED ON THE EXPRESS CONDITION THAT IT IS NOT TO BE USED FOR ANY PURPOSE OR COPIED OR COMMUNICATED TO ANY OTHER PERSON WITHOUT WRITTEN PERMISSION FROM DART AEROSPACE LTD.	

Entered: _____ Date: _____



WORK ORDER NON-CONFORMANCE / ROUTE UPDATE

NCR No. _____

Route update only ☐

Job: _____ Part No. _____	DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐	DEPARTMENT/PROCESS			
		Skid-tube ☐ Machining ☐ Large Fab ☐	Cross tube ☐ Small Fab ☐ Finishing ☐	Eng. (Non-AW) ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐	Engineering ☐ Water Jet ☐ Supplier ☐ Quality ☐
Date :	Sequence #:	QTY Affected :			MRB (QSI042)
Description Work Order Deviation		Disposition			Completed By
					Lead hand / Supervisor
					QC / QA Coordinator
Root Cause Operator ☐ Manufacturing Process ☐ Equip/Tooling ☐ Handling/Presservation ☐ Material ☐ Product Improvement ☐ Process Improvement ☐ Human Factors ☐		FAULT CATEGORY			
		☐ Pressure/Forced ☐ Bending ☐ Crushing ☐ Cracks ☐ Crimp/Kink/Ripple/Wave/Twist ☐ Marks/Chatter ☐ Mislabeled	☐ Contamination ☐ Misaligned/off center ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Incomplete/Unclear Instructions ☐ Drill Holes ☐ Fit/Function	☐ Power Loss/Surge ☐ Folio/Program ☐ Grain Direction ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set/Set-up	☐ Positioned Wrong ☐ Outside Tolerance ☐ Drawing ☐ Finish ☐ Part Lost/Missing ☐ Misread
		Other/Details:			



Dart Aerospace Ltd.
1270 Aberdeen St
Hawkesbury, ON
K6A 1K7
Canada

Tel (613) 632-5200

PURCHASE ORDER

POHB043909



Supplier: MCM001-VU
McMaster-Carr Supply Co,
P.O. Box 7690
Chicago, IL 60680-7690 USA
Phone: 330 995 5500
Fax: 330 995 9600

Attention: N/A,

Ship To: 1270 Aberdeen Street
Hawkesbury
ON
K6A 1K7 Canada
Phone: 613-632-5200

PO No: POHB043909

PO Date: 7/3/19

Due Date: 7/5/19

Purchase Order

Revision:

Revision Date:

Ship-To Contact: Phone:

Via: Ground

Pynt Terms: 2% 10 Net 30

Freight Terms:

Special Comments:

E-MAILED
2019-07-03

Items

Line Item	Job	Part	Supplier Part No	Description	Status	Account	Due Date	Order Quantity	Received Quantity	Balance	Unit Price (USD)	Extended Price
1		90854A164	25/pk	Zinc Yellow-Chromate Plated Steel Hex Head Screw, High-Strength, M8 x 1.25 mm Thread, 20 mm Long	Firmed	-	7/5/19	25 Ea	0 Ea	25 Ea	\$0.3144/Ea	\$7.86
2		92290A108	25/pk	SS 316 Socket Head Screw M3 X 0.5 mm X 4 mm Long	Firmed	-	7/5/19	25 Ea	0 Ea	25 Ea	\$0.2216/Ea	\$5.54
3		92497A400	100/pk	High-Strength Steel Hex Nut, Class 10, Zinc Yellow-Chromate Plated, M8 x 1.25 mm Thread	Firmed	-	7/5/19	100 Ea	0 Ea	100 Ea	\$0.1426/Ea	\$14.26
4		93600A697	5/pk	SS316 Dowel Pin 8 mm Dia. X 20 mm Long	Firmed	-	7/5/19	5 Ea	0 Ea	5 Ea	\$1.686/Ea	\$8.43
5		9559K41	10/pk	O-Ring	Firmed	-	7/5/19	10 Ea	0 Ea	10 Ea	\$1.268/Ea	\$12.68
6		98381A686	1/pk	Steel Dowel Pin 3/8" Diameter X 2-5/8" Long	Firmed	-	7/5/19	3 Ea	0 Ea	3 Ea	\$4.75/Ea	\$14.25
7		98381A644	1/pk	Steel Dowel Pin 3/8" Diameter X 5" Long	Firmed	-	7/5/19	2 Ea	0 Ea	2 Ea	\$9.42/Ea	\$18.84



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PURCHASE ORDER

POHB043909



Items												
Line Item	Job	Part	Supplier Part No	Description	Status	Account	Due Date	Order Quantity	Received Quantity	Balance	Unit Price (USD)	Extended Price
8		MT-O1-R3.250	89905K43 - 3ft len	AISI O1 Tool Steel Round Bar, 3.250" Diameter	Firmed	-	7/5/19	3 ft	0 ft	3 ft	\$106.56/ft	\$319.68
9		9542K372	1/pk; 5ft len	Antistatic, Slippery UHMW Polyethylene Bar, 2-1/2" Wide X 1/2" Thick	Firmed	-	7/5/19	5 Ea	0 Ea	5 Ea	\$8.67/Ea	\$43.35
10	197237	50715K676	DA 6 9-88	Flared Tube Fitting SS D5530-1 : AS PER DWG D5530 REV. A receive ea	Firmed	-	7/5/19	12 pcs	0 pcs	12 pcs	\$8.27/pcs	\$99.24
11	197233	50715K832	50715K832	37° Flared Tube Fitting, SS D5370-1 : AS PER DWG D5370 REV. C	Firmed	-	7/5/19	20 Ea	0 Ea	20 Ea	\$10.05/Ea	\$201.00
12	197232	6718K52		Fitting, Quick Disconnect D4182-1 : AS PER DWG D4182 REV. B	Firmed	-	7/5/19	10 pcs	0 pcs	10 pcs	\$5.98/pcs	\$59.80
Grand Total:												\$804.93

Order Notes

Procurement Quality Clauses
A005 RIGHT OF ENTRY
A016 PERSONNEL QUALIFICATION
A026 CERTIFICATION OF MATERIAL CONFORMANCE
A032 DOCUMENT SPECIAL REQUIREMENTS
A033 STATEMENT OF CONFORMITY/TEST RECORDS FOR NAS, AN and MS FASTENERS
A040 NOTIFICATION OF QUALITY ESCAPE
A041 QUALITY MANAGEMENT SYSTEM
A042 DART NOTIFICATION BY SUPPLIER
A043 RETENTION OF QUALITY DOCUMENTS

A048 COUNTERFEIT PARTS AVOIDANCE, DETECTION, MITIGATION AND DISPOSITION PROGRAM

A049 SUPPLIER AWARENESS

Terms & Condition of Purchasing(Suppliers) and Procurement Quality Clauses are an integral part of our AS9100 requirements. To learn in detail, please visit www.dartaerospace.com for further explanation.

Plex 7/3/19 1:45 PM Dart.Guerin.Kimberley



200 Aurora Industrial Pkwy
Aurora OH 44202-8087
330-995-5500
cle.sales@mcmaster.com

Dart Aerospace Ltd
1270 Aberdeen St
Hawkesbury ON K6A 1K7
Canada
Attention: N/A

Purchase Order
POHB043909 ✓
Order Placed By
Kimberley Guerin
McMaster-Carr Number
6768756-03

Page 1 of 2
07/03/2019

Line	Product	Ordered	Shipped
10 ✓	50715K831 37 Degree Flared Fitting for Stainless Steel Tubing, Adapter for 1/4" Tube OD x 7/16"-20 UNF Male, Replaces 50715K676 Which Is No Longer Available	12 Each	5 ✓

DAS
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Shipped separately from our Cleveland warehouse on 07/03

1	90854A164 Zinc Yellow-Chromate Plated Steel Hex Head Screw, High-Strength, M8 x 1.25 mm Thread, 20 mm Long	1 Pack	1
2	92290A108 Super-Corrosion-Resistant 316 Stainless Steel Socket Head Screw, M3 x 0.5 mm Thread, 4 mm Long	1 Pack	1
3	92497A400 High-Strength Steel Hex Nut, Class 10, Zinc Yellow-Chromate Plated, M8 x 1.25 mm Thread	1 Pack	1
4	93600A697 316 Stainless Steel Dowel Pin, 8mm Diameter, 20mm Long	1 Pack	1
5	9559K41 Ultra-Chemical-Resistant Rigid PTFE O-Ring, 1/8 Fractional Width, Dash Number 219	1 Pack	1
7	98381A644 Dowel Pin, 4140 Alloy Steel, 3/8" Diameter, 5" Long	2 Packs	2
10	50715K831 37 Degree Flared Fitting for Stainless Steel Tubing, Adapter for 1/4" Tube OD x 7/16"-20 UNF Male	12 Each	7
11	50715K832 37 Degree Flared Fitting for Stainless Steel Tubing, Adapter for 3/8" Tube OD x 9/16"-18 UNF Male	20 Each	20
12	6718K52 303 Stainless Steel Industrial-Shape Air Hose Coupling, Plug, 1/4 Coupling Size, 1/4 NPTF Female End	10 Each	10

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JUL 04 2019

DART AEROSPACE LTD.

Shipped separately from our Chicago warehouse on 07/03

8	89905K43 Oversized Multipurpose O1 Tool Steel Rod, 3-1/4" Diameter, 3 Feet Long	1 Each	1
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Packing List

200 Aurora Industrial Pkwy
Aurora OH 44202-8087
330-995-5500
cle.sales@mcmaster.com

Dart Aerospace Ltd
1270 Aberdeen St
Hawkesbury ON K6A 1K7
Canada
Attention: N/A

Purchase Order
POHB043909

Order Placed By
Kimberley Guerin

McMaster-Carr Number
6768756-03

Page 2 of 2

07/03/2019

Expected to ship

6 **98381A686** Dowel Pin, 4140 Alloy Steel, 3/8" Diameter, 2-5/8" Long

3
Packs

3 Jul 10-22

200 Aurora Industrial Pkwy
Aurora OH 44202-8087
330-995-5500
cle.sales@mcmaster.com

Dart Aerospace Ltd
1270 Aberdeen St
Hawkesbury ON K6A 1K7
Canada
Attention: N/A

Purchase Order
POHB043909

Order Placed By
Kimberley Guerin

McMaster-Carr Number
6768756-04

Page 1 of 1

07/03/2019

Line	Product	Ordered	Shipped
1	90854A164 Zinc Yellow-Chromate Plated Steel Hex Head Screw, High-Strength, M8 x 1.25 mm Thread, 20 mm Long, Packs of 25	1 Pack	1
2	92290A108 Super-Corrosion-Resistant 316 Stainless Steel Socket Head Screw, M3 x 0.5 mm Thread, 4 mm Long, Packs of 25	1 Pack	1
3	92497A400 High-Strength Steel Hex Nut, Class 10, Zinc Yellow-Chromate Plated, M8 x 1.25 mm Thread, Packs of 100	1 Pack	1
4	93600A697 316 Stainless Steel Dowel Pin, 8mm Diameter, 20mm Long, Packs of 5	1 Pack	1
5	9559K41 Ultra-Chemical-Resistant Rigid PTFE O-Ring, 1/8 Fractional Width, Dash Number 219, Packs of 10	1 Pack	1
7	98381A644 Dowel Pin, 4140 Alloy Steel, 3/8" Diameter, 5" Long, Packs of 1	2 Packs	2
10	50715K831 37 Degree Flared Fitting for Stainless Steel Tubing, Adapter for 1/4" Tube OD x 7/16"-20 UNF Male, Replaces 50715K676 , Which Is No Longer Available	12 Each	7 ✓
11	50715K832 37 Degree Flared Fitting for Stainless Steel Tubing, Adapter for 3/8" Tube OD x 9/16"-18 UNF Male	20 Each	20
12	6718K52 303 Stainless Steel Industrial-Shape Air Hose Coupling, Plug, 1/4 Coupling Size, 1/4 NPTF Female End	10 Each	10

DAS
61
9-89

Shipped separately from our Chicago warehouse on 07/03

8	89905K43 Oversized Multipurpose O1 Tool Steel Rod, 3-1/4" Diameter, 3 Feet Long	1 Each	1
9	9542K372 Antistatic Slippery UHMW Polyethylene Bar, 2-1/2" x 5 Feet x 1/2"	1 Each	1
10	50715K831 37 Degree Flared Fitting for Stainless Steel Tubing, Adapter for 1/4" Tube OD x 7/16"-20 UNF Male	12 Each	5

Expected to ship

6	98381A686 Dowel Pin, 4140 Alloy Steel, 3/8" Diameter, 2-5/8" Long	3 Packs	3 Jul 10-22
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RECEIVED

JUL 04 2019

DART AEROSPACE LTD.

